

**Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554**

In the Matter of	)	
	)	
Advanced Television Systems	)	MB Docket 87-268
And Their Impact Upon the	)	
Existing Television Broadcast Service	)	

To: The Commission

**COMMENTS OF NEXSTAR BROADCASTING, INC.**

Nexstar Broadcasting, Inc. ("Nexstar"), by its attorneys, hereby submits these comments in response to the Commission's Seventh Further Notice of Proposed Rulemaking in the above-referenced proceeding ("Seventh FNPR"). In the Seventh FNPR, the Commission proposes a DTV Table of Allotments ("DTV Table") listing the communities and channels assigned to such communities in Appendix A. Nexstar has reviewed the DTV Table and it accurately lists the communities and channels in and on which Nexstar will operate its post-transition DTV stations.

The Seventh FNPR also sets forth, in Appendix B, technical operating parameters for DTV stations at the end of the DTV transition (the "Technical Table"). In developing the Technical Table, the Commission relied upon certifications made by DTV licensees and permittees during the channel election process with regard to their proposed final DTV operations, as well as objective computer analysis pursuant to the technical standards and methods set forth in the Commission's rules.<sup>1</sup> Nexstar submits these comments with respect to the technical parameters set forth for its stations in the Technical Table.

---

<sup>1</sup> The Commission used the procedures set forth in the Office of Engineering and Technology's *OET Bulletin No. 69*, which uses Longley-Rice methodology, to make predictions of service coverage and interference.

Nexstar certifies that the Technical Table is accurate with respect to the facilities specified for KFTA-DT, KNWA-DT, WLYH-DT, WQRF-DT, WBRE-DT, WFXV-DT, KMID-DT, WTVW-DT and KBTB-DT. However, Nexstar requests that the Commission update the Technical Data in conformance with the minor discrepancies noted in footnote 2 below.<sup>2</sup> In addition, Nexstar believes the technical facilities on the channels specified for KQTV-DT, WCFN-DT, WHAG-DT and WJET-DT are adequate. However, Nexstar has not determined whether it will be able to construct precisely the facilities specified in the Technical Table for these stations. Nexstar anticipates submitting appropriate applications for these stations' operations on their proposed channels once the Commission issues guidelines for stations that will be implementing digital operations on different channels at the end of the transition.

With respect to Nexstar's remaining stations, Nexstar has determined that the information in the Technical Table is different from the technical information stated in these stations' DTV licenses, current DTV construction permits or applications for modification of the stations' DTV construction permits, as applicable. The variations between the facilities specified in the Technical Table and the facilities licensed or to be constructed are relatively minor, and for seven of these stations are due to circumstances beyond its control.

---

<sup>2</sup> There are slight discrepancies between the KNWA-DT licensed facilities and the information in the Technical Table. The Technical Table specifies coordinates of 36 24 47 N, 93 57 16 W and a HAAT of 267 meters for KNWA-DT. KNWA-DT's licensed facilities are located at coordinates 36 24 48 N, 93 57 17 W at 265.2 meters HAAT. Nexstar is in the process of constructing WQRF-DT and the licensed facility will have a HAAT of 150.9 meters rather than 149 meters. There is a one second discrepancy between the coordinates stated in WBRE-DT's license and the coordinates stated in the Technical Table. WBRE-DT is located at coordinates 41 10 57 N, 75 52 26 W. There is a three-second discrepancy between the coordinates stated in KMID-DT's coordinates as stated in Construction Permit File No. BPCDT-20000503ABE and the coordinates stated in the Technical Table. To the best of Nexstar's knowledge, the coordinates stated in KMID-DT's construction permit are correct.

In Section A below, Nexstar provides the Commission with updated technical information for the proposed operations of its DTV stations post-transition. In Section B, Nexstar requests that the Commission modify Nexstar's Form 381 certifications to the extent necessary.

**A. Technical Changes for Nexstar's Stations.**

1. Licensed Stations. Stations KARK-DT, WMBD-DT, WTAJ-DT and WROC-DT have been licensed and are operating with the facilities Nexstar proposes to utilize post-transition. In addition, Nexstar will be submitting a license application in the near future for the facilities for WCIA-DT stated in Construction Permit File No. BMPCDT-20050701ACC. Therefore, Nexstar requests the Technical Table be updated for these stations as follows:

**KARK-DT**

From:

Channel: 32	ERP: 1000 kW	HAAT: 503 m	Antenna: 74802	34 47 57 N 92 29 59 W
-------------	--------------	-------------	----------------	--------------------------

To:

Channel: 32	ERP: 989 kW	HAAT: 474 m	Antenna: 29656	34 47 57 N 92 29 59 W
-------------	-------------	-------------	----------------	--------------------------

**WMBD-DT**

From:

Channel: 30	ERP: 1000 kW	HAAT: 180 m	Antenna: Non-directional	40 38 06 N 89 32 19 W
-------------	--------------	-------------	--------------------------	--------------------------

To:

Channel: 30	ERP: 1000 kW	HAAT: 193 m	Antenna: 71298	40 38 06 N 89 32 19 W
-------------	--------------	-------------	----------------	--------------------------

**WTAJ-DT**

From:

Channel: 32	ERP: 1000 kW	HAAT: 305 m	Antenna: 28867	43 34 01 N 78 26 30 W
-------------	--------------	-------------	----------------	--------------------------

To:

Channel: 32	ERP: 883 kW	HAAT: 305 m	Antenna: 70018	43 34 01 N 78 26 30 W
-------------	-------------	-------------	----------------	--------------------------

**WROC-DT**

From:

Channel: 45	ERP: 1000 kW	HAAT: 152 m	Antenna: 74909	43 08 07 N 77 35 02 W
-------------	--------------	-------------	----------------	--------------------------

To:

Channel: 45	ERP: 1000 kW	HAAT: 122.3 m	Antenna: 69994	43 08 07 N 77 35 02 W
-------------	--------------	---------------	----------------	--------------------------

**WCIA-DT**

From:

Channel: 48	ERP: 1000 kW	HAAT: 287 m	Antenna: 74853	40 06 23 N 88 27 00 W
-------------	--------------	-------------	----------------	--------------------------

To:

Channel: 48	ERP: 1000 kW	HAAT: 245 m	Antenna: 69992	40 06 21 N 88 26 59 W
-------------	--------------	-------------	----------------	--------------------------

2. Stations with Changed Circumstances. For stations KTAL-DT, KTAB-DT, KSFY-DT, KLBK-DT, WFFT-DT, KSNF-DT and KSVI-DT, Nexstar has submitted applications for Commission consent to operate with facilities at different heights above average terrain than those specified in the Technical Table due to circumstances beyond Nexstar's control.

a. For stations KSFX-DT, KLBK-DT, WFFT-TV and KSVI-DT, the tower owner has leased the tower space at the HAAT specified in the Technical Table to other parties and, therefore, that space is not available for use by Nexstar's stations. The tower owner has designated the HAATs stated in Nexstar's pending construction permits for Nexstar's use. Therefore, Nexstar requests the Technical Table be updated for KSFX-DT, KLBK-DT, WFFT-DT and KSVI-DT as follows (there is no change in the antenna structure coordinates for these stations):

**KSFX-DT<sup>3</sup>**

From:

Channel: 28	ERP: 960 kW	HAAT: 546 m	Antenna: Non-directional
-------------	-------------	-------------	--------------------------

To:

Channel: 28	ERP: 960 kW	HAAT: 491.4 m	Antenna: Non-directional
-------------	-------------	---------------	--------------------------

Nexstar has analyzed its proposed operations of KSFX-DT at a HAAT of 491.4 meters and has determined that this facility will serve a population of approximately 95.93 percent of the population stated in the Technical Table.

---

<sup>3</sup> KSFX-DT began operating pursuant to program test authority with these facilities on January 19, 2007. Nexstar will submit an application for license for this facility shortly. Nexstar notes that KSFX-DT's proposed operations at 491.4 meters HAAT do not cause additional interference to any other tentatively proposed facilities in the DTV Table (see File No. BMPCDT-20070116AAC).

**KLBK-DT<sup>4</sup>**

From:

Channel: 40	ERP: 1000 kW	HAAT: 268 m	Antenna: 74945
-------------	--------------	-------------	----------------

To:

Channel: 40	ERP: 1000 kW	HAAT: 219.4 m	Antenna: Non-directional
-------------	--------------	---------------	--------------------------

Nexstar has analyzed its proposed operations of KLBK-DT at a HAAT of 219.4 meters and has determined that this facility will serve a population of approximately 98.73 percent of the population stated in the Technical Table.

**WFFT-DT<sup>5</sup>**

From:

Channel: 36	ERP: 1000 kW	HAAT: 241 m	Antenna: 29265
-------------	--------------	-------------	----------------

To:

Channel: 36	ERP: 1000 kW	HAAT: 218.2 m	Antenna: Not assigned yet
-------------	--------------	---------------	---------------------------

Nexstar has analyzed its proposed operations of WFFT-DT at a HAAT of 218.2 meters and has determined that this facility will serve a population of approximately 96.29 percent of the population stated in the Technical Table.

---

<sup>4</sup> Nexstar has submitted an application to modify KLBK-DT's construction permit to specify operations at 219.4 meters HAAT (see File No. BMPCDT-20070125ABT). Nexstar notes that KLBK-DT's proposed operations at 219.4 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

<sup>5</sup> Nexstar has submitted an application to modify WFFT-DT's construction permit to specify operations at 218.2 meters HAAT (see File No. BMPCDT-20070125ACY). Nexstar notes that WFFT-DT's proposed operations at 218.2 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

**KSVI-DT<sup>6</sup>**

From:

Channel: 18	ERP: 1000 kW	HAAT: 249 m	Antenna: 74883
-------------	--------------	-------------	----------------

To:

Channel: 18	ERP: 1000 kW	HAAT: 228 m	Antenna: 29136
-------------	--------------	-------------	----------------

Nexstar has analyzed its proposed operations of KSVI-DT at a HAAT of 228 meters with a non-directional antenna and has determined that this facility will serve a population of approximately 98.97 percent of the population stated in the Technical Table.

b. For stations KTAL-DT, KTAB-DT and KSNF-DT, Nexstar is proposing technical facilities different from those specified in the Technical Table in order to accommodate certain tower-related problems that were discovered after November 2004. Therefore, Nexstar requests the Technical Table be updated for KTAL-DT, KTAB-DT and KSNF-DT as follows (there is no change in the antenna structure coordinates for these stations):

**KTAL-DT<sup>7</sup>**

From:

Channel: 15	ERP: 1000 kW	HAAT: 543 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

To:

Channel: 15	ERP: 1000 kW	HAAT: 456.4 m	Antenna: Non-directional
-------------	--------------	---------------	--------------------------

---

<sup>6</sup> Nexstar holds a construction permit for KSVI-DT at 228 meters (File No. BPCDT-19991029ACI) and notes that KSVI-DT's proposed operations at 228 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

<sup>7</sup> Nexstar has submitted an application to modify KTAL-DT's construction permit to specify operations at 456.4 meters HAAT (see File No. BMPCDT-20070125ABR). Nexstar notes that KTAL-DT's proposed operations at 456.4 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

The Technical Table specifies a HAAT of 543 meters, which assumes that Nexstar will top-mount the antenna for KTAL-DT. This requires a combination antenna for KTAL-TV and KTAL-DT, which is not possible. Accordingly, Nexstar holds a construction permit for KTAL-DT (File BMPCDT-20050701ACD) to install KTAL-DT's antenna at 462.5 meters HAAT. Nexstar has determined that installing the KTAL-DT antenna at 462.5 meters HAAT will interfere with the top guy-wire of the tower. Therefore, Nexstar has requested Commission consent to decrease the HAAT for KTAL-DT by approximately 20 feet to 456.4 meters HAAT. Nexstar has analyzed its proposed operations of KTAL-DT at a HAAT of 456.4 meters and has determined that this facility will serve 100 percent of the population stated in the Technical Table.

#### **KTAB-DT<sup>8</sup>**

From:

Channel: 24	ERP: 1000 kW	HAAT: 255 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

To:

Channel: 24	ERP: 1000 kW	HAAT: 260 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

Nexstar's current construction permit for KTAB-DT (File BMPCDT-20050701ACD) anticipates the installation of KTAB-DT's antenna at 255 meters HAAT. Nexstar has determined that installing the KTAB-DT antenna at 255 meters HAAT will cause the antenna to interfere with the second-from-the-top guy-wire. Therefore, Nexstar has requested Commission consent to slightly increase the HAAT for KTAB-DT to 260 meters HAAT in order to move the antenna above the guy-wire. Nexstar has analyzed its proposed operations of KTAB-DT at a

---

<sup>8</sup> Nexstar has submitted an application to modify KTAB-DT's construction permit to specify operations at 260 meters HAAT (see File No. BMPCDT-20070125ABS). Nexstar notes that KTAB-DT's proposed operations at 260 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.



HAAT of 260 meters and has determined that this facility will serve 100 percent of the population stated in the Technical Table.

**KSNF-DT<sup>9</sup>**

From:

Channel: 46	ERP: 1000 kW	HAAT: 213 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

To:

Channel: 46	ERP: 175 kW	HAAT: 322.8 m	Antenna: Non-directional
-------------	-------------	---------------	--------------------------

KSNF's analog antenna is located at 313 meters HAAT. Nexstar has determined that the tower may not support separate analog and DTV antennas for KSNF, but the tower will support a combined antenna. Nexstar's antenna manufacturer has confirmed that it can produce an appropriate antenna. Therefore, Nexstar has requested Commission consent to top-mount KSNF-DT's antenna at 322.8 meters HAAT. In order to support this proposed increase in HAAT Nexstar must decrease KSNF-DT's ERP from 1000 kW to 175 kW. Nexstar's proposed facilities for KSNF-DT will serve a population of approximately 99.88 percent of the population stated in the Technical Table.

3. Separate Antennas Are Necessary. For stations KFDX-DT, KARD-DT, WTWO-DT and WDHN-DT, Nexstar originally anticipated installing combined analog/DTV antennas at the analog facilities' HAAT. However, installation of combination antennas is not possible. Therefore, Nexstar intends to install the DTV antennas as close as possible to these stations' analog antennas, with reduction in HAATs of 50 meters or less. Accordingly, Nexstar

---

<sup>9</sup> Nexstar has submitted an application to modify KSNF-DT's construction permit to specify operations at 260 meters HAAT (see File No. BMPCDT-20070125ACP). Nexstar notes that KSNF-DT's proposed operations at 260 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

requests the Technical Table be updated as follows (there is no change in the antenna structure coordinates for these stations):

**KFDX-DT<sup>10</sup>**

From:

Channel: 28	ERP: 1000 kW	HAAT: 305 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

To:

Channel: 28	ERP: 1000 kW	HAAT: 275 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

Nexstar has analyzed its proposed operations of KFDX-DT at a HAAT of 275 meters and has determined that this facility will serve a population of approximately 97.23 percent of the population stated in the Technical Table.

**KARD-DT<sup>11</sup>**

From:

Channel: 36	ERP: 1000 kW	HAAT: 570 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

To:

Channel: 36	ERP: 1000 kW	HAAT: 521.3 m	Antenna: Non-directional
-------------	--------------	---------------	--------------------------

Nexstar has analyzed its proposed operations of KARD-DT at a HAAT of 521.3 meters and has determined that this facility will serve a population of approximately 96.89 percent of the population stated in the Technical Table.

---

<sup>10</sup> Nexstar has submitted an application to modify KFDX-DT's construction permit to specify operations at 275 meters HAAT (see File No. BMPCDT-20070125ABU). Nexstar notes that KSFY-DT's proposed operations at 275 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

<sup>11</sup> Nexstar also notes that it does not own the tower on which KARD-DT will be constructed and the tower owner has designated 521.3 meters for KARD-DT's separate antenna. Nexstar has submitted an application to modify KARD-DT's construction permit to specify operations at 521.3 meters HAAT (see File No. BMPCDT-20070125ACR). Nexstar notes that KARD-DT's proposed operations at 521.3 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

**WTWO-DT<sup>12</sup>**

From:

Channel: 36	ERP: 1000 kW	HAAT: 290 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

To:

Channel: 36	ERP: 1000 kW	HAAT: 249.6 m	Antenna: Non-directional
-------------	--------------	---------------	--------------------------

Nexstar has analyzed its proposed operations of WTWO-DT at a HAAT of 249.6 meters and has determined that this facility will serve a population of approximately 90.18 percent of the population stated in the Technical Table.

**WDHN-DT<sup>13</sup>**

From:

Channel: 21	ERP: 1000 kW	HAAT: 223 m	Antenna: Non-directional
-------------	--------------	-------------	--------------------------

To:

Channel: 21	ERP: 1000 kW	HAAT: 206.5 m	Antenna: Non-directional
-------------	--------------	---------------	--------------------------

Nexstar has analyzed its proposed operations of WDHN-DT at a HAAT of 206.5 meters and has determined that this facility will serve a population of approximately 96.39 percent of the population stated in the Technical Table.

---

<sup>12</sup> Nexstar has submitted an application to modify WTWO-DT's construction permit to specify operations at 249.6 meters HAAT (see File No. BMPCDT-20070125ADB). Nexstar notes that WTWO-DT's proposed operations at 249.6 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

<sup>13</sup> Nexstar has submitted an application to modify WDHN-DT's construction permit to specify operations at 206.5 meters HAAT (see File No. BMPCDT-20070125ACS). Nexstar notes that WDHN-DT's proposed operations at 206.5 meters HAAT will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

4. Tower Change. The Technical Table specifies that KAMR-DT will operate from a tower located at coordinates 35 18 52 N, 101 50 47 W. Nexstar has requested Commission consent to relocate KAMR-DT from the specified tower to a tower located approximately eight kilometers away, at coordinates 35 20 33 N, 101 42 21 W. On the new tower, KAMR-DT's antenna HAAT will increase from 403 meters HAAT to 463 meters HAAT. In order to accommodate KAMR-DT's increased HAAT, Nexstar proposes to decrease the ERP from 1000 kW to 400 kW.<sup>14</sup>

Nexstar's DTV consultants have determined that KAMR-DT's current tower needs to be strengthened at a cost of approximately \$461,000. Relocating KAMR-DT to the proposed different tower will permit Nexstar to avoid this expense (but Nexstar will share in the tower strengthening costs for its proposed new tower). In addition, this relocation will permit Nexstar and Mission Broadcasting's station KCIT to share a combined antenna and transmission line and a microwave delivery system. The parties also will require only one tower crew to install the stations' antennas. Nexstar anticipates that relocating KAMR-DT to the proposed different tower will enable Nexstar and Mission Broadcasting to save approximately 25 to 30 percent of the pre-combination conversion costs. Therefore, Nexstar requests the Technical Table be updated for KAMR-DT as follows:

From:

Channel: 19	ERP: 1000 kW	HAAT: 403 m	Antenna: Non-directional	35 18 52 N 101 50 47 W
-------------	--------------	-------------	--------------------------	---------------------------

To:

---

<sup>14</sup> Nexstar has submitted an application to modify KAMR-DT's construction permit to specify operations from a new tower at 463 meters HAAT with 400 kW ERP (see File No. BMPCDT-20070125ABO). Nexstar notes that KAMR-DT's proposed operations from a new location will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

Channel: 19	ERP: 1000 kW	HAAT: 463 m	Antenna: Non-directional	35 20 33 N 101 49 21 W
-------------	--------------	-------------	--------------------------	---------------------------

Nexstar has determined that KAMR-DT's operations from its proposed new location will serve a population of approximately 97.54 percent of the population stated in the Technical Table.

5. Accuracy Correction. Nexstar has reviewed the facilities for KLST-DT and determined that the antenna center of radiation is not accurate. This requires a slight correction of the HAAT for KLST-DT. Therefore, Nexstar requests the Technical Table be updated for KLST-DT as follows:<sup>15</sup>

From:

Channel: 11	ERP: 18.8 kW	HAAT: 442 m	Antenna: 74947
-------------	--------------	-------------	----------------

To:

Channel: 11	ERP: 18.8 kW	HAAT: 434.4 m	Antenna: Non-directional
-------------	--------------	---------------	--------------------------

#### **B. Nexstar's Form 381 Certifications.**

Nexstar recognizes that the majority of the changes proposed in Sections 2-4 above will result in its DTV stations serving slightly reduced populations from the populations calculated to be served pursuant to its Form 381 certifications. In seven of these instances, the changes proposed by Nexstar are due to circumstances beyond its control and will result in the stations continuing to serve 95-100 percent of the populations specified in the Technical Table.

<sup>15</sup> Nexstar has submitted an application to modify KLST-DT's construction permit for this minor correction (see File No. BMPCDT-20070125ACQ). Nexstar notes that KLST-DT's proposed operations from a new location will not cause additional interference to any other tentatively proposed facilities in the DTV Table.

For four stations, Nexstar had anticipated using combination antennas but now has determined this to be impossible. Without the changes proposed herein, Nexstar would be obligated to install DTV antennas at lower HAATs on a temporary basis and, at the end of the transition, spend a significant some of money to remove the analog antennas from the specified heights and move the DTV antennas to the originally specified heights. In three instances, the DTV stations operating at the proposed new, lower HAATs will serve at least 96 percent of the population stated in the Technical Table. For the fourth station (WTWO-DT), the station will serve 90 percent of the Technical Table population.

Nexstar proposes to relocate one station to a new tower, which will permit Nexstar to save approximately \$500,000. However, the relocated facility for this station, KAMR-DT, will continue to serve at least 97 percent of the population stated in the Technical Table.

Nexstar's remaining changes are to conform the Technical Table to the licenses for Nexstar's constructed stations.

Accordingly, Nexstar requests that either (i) the Commission permit the changes proposed herein to be treated as amendments its Form 381s (Nexstar will submit separate amendments if the Commission so directs) or (b) the Commission confirm that the above-specified operating parameters for its stations are sufficient to meet the certification of construction for its stations as set forth in the stations' Form 381s.

Respectfully submitted,

**NEXSTAR BROADCASTING, INC.**

By: 

Howard M. Liberman  
Elizabeth A. Hammond  
Drinker Biddle & Reath LLP  
1500 K Street, NW  
Suite 1100  
Washington, DC 20006  
(202) 842-8800

Its Attorneys

January 25, 2007

DC\590994\2